

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A computer-implemented method for optimizing a tour having

a first segment with an origination point and a destination point and a second segment with an origination point and a destination point, comprising steps implemented by a computer processor of:

receiving first load data about a first load and second load data about a second load, using the computer processor;

evaluating a fit of the first load data on the first segment and a fit of the second load data on the ~~second~~ first segment, using the computer processor, wherein evaluating the fit of the first load data further comprises:

determining a common carrier cost for putting the first load on a common carrier;

determining a dedicated cost for putting the first load on the first segment; and

setting a savings criteria for the first segment as the difference between the common carrier cost and the dedicated cost;

evaluating a fit of the first load data on the second segment and a fit of the second load data on the second segment, using the computer processor;

ranking, in a first list comprising available loads for the first segment, the relative fits of the first load data and the second load data against the first segment, using the computer processor;

ranking, in a second list comprising available loads for the second segment, the relative fits of the first load data and the second load data against the second segment, using the computer processor;

assigning the load having the highest ranking fit from the first list to the first segment and removing that load from the second list, using the computer processor; and

assigning the load having the highest ranking fit from the second list to the second segment, using a computer processor; and  
storing the tour using the assigned loads on a memory coupled to the processor.

2. (Previously Presented) The computer-implemented method of claim 1, wherein evaluating the fit of the first load data further comprises evaluating key parameters of the first load data, wherein the key parameters include one or more of a time criteria, a distance criteria, and a savings criteria.
3. (Previously Presented) The computer-implemented method of claim 2, wherein evaluating the fit of the first load data further comprises:  
checking a latest ready delivery date of the first load data against the first segment's estimated end date; and

if the latest ready delivery date is greater than the estimated end date,  
setting the first load as unfit for assignment to the first segment.

4. (Previously Presented) The computer-implemented method of claim 2, wherein evaluating the fit of the first load data further comprises:

checking a latest load ready date of the first load data against the first  
segment's estimated start date; and

if the latest load ready date is less than the estimated start date, setting  
the first load as unfit for assignment to the first segment.

5. (Previously Presented) The computer-implemented method of claim 2, wherein the distance criteria include one or more of a segment deadhead criteria, load deadhead criteria, and tour mileage criteria.

6. (Previously Presented) The computer-implemented method of claim 5, wherein evaluating the fit of the first load data further comprises:

computing the segment deadhead resulting from assigning the first load to  
the first segment; and

if the computed segment deadhead is greater than the segment deadhead  
criteria, setting the first load as unfit for assignment to the first  
segment.

7. (Previously Presented) The computer-implemented method of claim 5, wherein evaluating the fit of the first load data further comprises:
- computing the total tour deadhead that would result from assigning the first load to the first segment; and
  - if the computed total tour deadhead is greater than the load deadhead criteria, setting the first load as unfit for assignment to the first segment.
8. (Previously Presented) The computer-implemented method of claim 5, wherein evaluating the fit of the first load data further comprises:
- computing the total tour mileage that would result from assigning the first load to the first segment; and
  - if the computed total tour mileage is greater than the tour mileage criteria, setting the first load as unfit for assignment to the first segment.
- 9-13. (Canceled)
14. (Previously Presented) A system for optimizing a tour having a first segment with an origination point and a destination point and a second segment with an origination point and a destination point comprising:
- a memory; and
  - a microprocessor coupled to the memory and programmed to:

receive first load data about a first load and second load  
data about a second load;  
evaluate a fit of the first load data on the first segment and a  
fit of the second load data on the first segment,  
wherein the microprocessor evaluates the fit of the  
first load data by being further programmed to:  
determine a common carrier cost for putting  
the first load on a common carrier;  
determine a dedicated cost for putting the first  
load on the first segment; and  
set the savings criteria as the difference  
between the common carrier cost and  
the dedicated cost;  
evaluate a fit of the first load data on the second segment  
and a fit of the second load data on the second  
segment;  
rank, in a first list comprising available loads for the first  
segment, the relative fits of the first load data and the  
second load data against the first segment;  
rank, in a second list comprising available loads for the  
second segment, the relative fits of the first load data  
and the second load data against the second  
segment;

assign the load having the highest ranking fit from the first  
list to the first segment and removing that load from  
the second list; and  
assign the load having the highest ranking fit from the  
second list to the second segment.

15. (Previously Presented) The system of claim 14, wherein the microprocessor is further programmed to evaluate key parameters of the first load data as part of evaluating the fit of the first load data, wherein the key parameters include one or more of a time criteria, a distance criteria, and a savings criteria.
16. (Original) The system of claim 15, wherein the microprocessor is further programmed to:
  - check a latest ready delivery date of the first load data against the first segment's estimated end date; and
  - if the latest ready delivery date is greater than the estimated end date, set the first load as unfit for assignment to the first segment.
17. (Original) The system of claim 15, wherein the microprocessor is further programmed to:
  - check a latest load ready date of the first load data against the first segment's estimated start date; and

if the latest load ready date is less than the estimated start date, set the first load as unfit for assignment to the first segment.

18. (Original) The system of claim 15, wherein the distance criteria include one or more of a segment deadhead criteria, load deadhead criteria, and tour mileage criteria.

19. (Original) The system of claim 18, wherein the microprocessor is further programmed to:

compute the segment deadhead resulting from assigning the first load to the first segment; and

if the computed segment deadhead is greater than the segment deadhead criteria, set the first load as unfit for assignment to the first segment.

20. (Original) The system of claim 18, wherein the microprocessor is further programmed to:

compute the total tour deadhead that would result from assigning the first load to the first segment; and

if the computed total tour deadhead is greater than the load deadhead criteria, set the first load as unfit for assignment to the first segment.

21. (Original) The system of claim 18, wherein the microprocessor is further programmed to:

compute the total tour mileage that would result from assigning the first load to the first segment; and

if the computed total tour mileage is greater than the tour mileage criteria, set the first load as unfit for assignment to the first segment.

22-26. (Canceled)

27. (Previously Presented) A computer-readable storage medium containing instructions for optimizing a tour having a first segment with an origination point and a destination point and a second segment with an origination point and a destination point, the instructions, when executed by a processor, causing the processor to perform stages comprising:

receiving first load data about a first load and second load data about a second load;

evaluating a fit of the first load data on the first segment and a fit of the second load data on the first segment, wherein evaluating the fit of the first load data on the first segment further comprises:

determining a common carrier cost for putting the first load on a common carrier;

determining a dedicated cost for putting the first load on the first segment; and



setting a savings criteria as the difference between the  
common carrier cost and the dedicated cost;  
evaluating a fit of the first load data on the second segment and a fit of the  
second load data on the second segment;  
ranking, in a first list comprising available loads for the first segment, the  
relative fits of the first load data and the second load data against  
the first segment;  
ranking, in a second list comprising available loads for the second  
segment, the relative fits of the first load data and the second load  
data against the second segment;  
assigning the load having the highest ranking fit from the first list to the  
first segment and removing that load from the second list; and  
assigning the load having the highest ranking fit from the second list to the  
second segment.

28. (Previously Presented) The computer-readable storage medium of claim 27,  
wherein the stages further comprise key parameters of the first load data,  
wherein the key parameters include one or more of a time criteria, a distance  
criteria, and a savings criteria.

29. (Previously Presented) The computer-readable storage medium of claim 28, wherein the stages further comprise:

checking a latest ready delivery date of the first load data against the first segment's estimated end date; and  
setting, if the latest ready delivery date is greater than the estimated end date, the first load as unfit for assignment to the first segment.

30. (Previously Presented) The computer-readable storage medium of claim 28, wherein the stages further comprise:

checking a latest load ready date of the first load data against the first segment's estimated start date; and  
setting, if the latest load ready date is less than the estimated start date, the first load as unfit for assignment to the first segment.

31. (Previously Presented) The computer-readable storage medium of claim 28, wherein the distance criteria include one or more of a segment deadhead criteria, load deadhead criteria, and tour mileage criteria.

32. (Previously Presented) The computer-readable storage medium of claim 31, wherein the stages further comprise:

computing the segment deadhead resulting from assigning the first load to the first segment; and

setting, if the computed segment deadhead is greater than the segment deadhead criteria, the first load as unfit for assignment to the first segment.

33. (Previously Presented) The computer-readable storage medium of claim 31, wherein the stages further comprise:

compute the total tour deadhead that would result from assigning the first load to the first segment; and  
if the computed total tour deadhead is greater than the load deadhead criteria, set the first load as unfit for assignment to the first segment.

34. (Previously Presented) The computer-readable storage medium of claim 31, wherein the stages further comprise:

computing the total tour mileage that would result from assigning the first load to the first segment; and  
setting, if the computed total tour mileage is greater than the tour mileage criteria, the first load as unfit for assignment to the first segment.

35-39. (Canceled)